

Listing of Claims

This listing of claims will replace all prior listings of claims in the application: ~

1. (Currently Amended) An aluminum alloy structural plate excelling in strength and corrosion resistance, comprising, in mass %, 4.8-7% ~~(mass%, hereinafter the same)~~ Zn, 1-3% Mg, 1-2.5% Cu, and 0.05-0.25% Zr, with the remaining portion consisting of Al and impurities, wherein the aluminum alloy structural plate has a structure containing 25% or more of grain boundaries with misorientations of 3-10° at the plate surface.

2. (Currently Amended) The aluminum alloy structural plate ~~excelling in strength and corrosion resistance of~~ Claim 1, wherein the average grain size is 10 µm or less at the plate surface.

AB 3. (Withdrawn) A method of manufacturing an aluminum alloy structural plate excelling in strength and corrosion resistance, comprising: homogenizing an ingot of an aluminum alloy having the composition according to claim 1; hot rolling the ingot; repeatedly rolling the hot-rolled product at 400-150° so that the degree of working is 70% or more to produce a plate material with a specific thickness; subjecting the plate material to a solution heat treatment at 450-490°C for five minutes or more; and cooling the resulting plate material at a cooling rate of 10°C/second or more.

4. (Withdrawn) A method of manufacturing an aluminum alloy structural plate excelling in strength and corrosion resistance, comprising: homogenizing an ingot of an aluminum alloy having the above composition; hot rolling the ingot; repeatedly rolling the hot-rolled product at 400-150°C in a

state in which rolls for hot rolling are heated at 40°C or more so that the degree of working is 70% or more to produce a plate material with a specific thickness; subjecting the plate material to a solution heat treatment at 450-500°C for five minutes or more; and cooling the resulting plate material at a cooling rate of 10°C/second or more.

5. (New) The aluminum alloy structural plate of Claim 1, wherein the plate has a thickness of from 1-1.5 mm.
